

Claims

- [c1] 1. We claim a method of controlling the weight or to induce a weight loss or to reduce an expected weight gain from a given diet in a mammal with the use of methyl pyruvate.
- [c2] 2. We claim a method of controlling the weight or to induce a weight loss or to reduce an expected weight gain from a given diet in a mammal with the use of methyl pyruvic acid.
- [c3] 3. We claim the method of claim 1 wherein body fat deposition in said mammal is effectively reduced by administering methyl pyruvate.
- [c4] 4. We claim the method of claim 2 wherein body fat deposition in said mammal is effectively reduced by administering methyl pyruvic acid.
- [c5] 5. We claim the method of claim 2 wherein a therapeutic and effective amount of methyl pyruvic acid is infused or orally administered to the mammal.
- [c6] 6. We claim the method of claim 1 wherein a therapeutic and effective amount of the salt of methyl pyruvate is in-

fused or orally administered to the mammal.

- [c7] 7. We claim the method of claim 6 wherein the salt of methyl pyruvate is a monovalent cation (such as sodium or potassium methyl pyruvate).
- [c8] 8. We claim the method of claim 6 wherein the salt of methyl pyruvate is a divalent cation (such as calcium or magnesium methyl pyruvate).
- [c9] 9. We claim the method of claim 6 wherein analogs of these compounds can act as substrates or substrate analogs for methyl pyruvate.
- [c10] 10. We claim the method of claim 6 wherein the salt of methyl pyruvate and composition of a pharmacologically acceptable excipient and/or diluent therefor.
- [c11] 11. We claim the method of claim 10 wherein the salt of methyl pyruvate and composition which further comprises vitamins, coenzymes, mineral substances, amino acids, herbs, creatine compounds a, metabolic compounds and antioxidants.
- [c12] 12. We claim the method of claim 10, orally administrable, in the form of a dietary supplement or energizer or pharmaceutical drug.
- [c13] 13. We claim the method of claim 11, orally administrable,

ble, in the form of a dietary supplement or energizer or pharmaceutical drug.

- [c14] 14. We claim the method of claim 12, in the form of lozenges, tablets, pills, capsules, powders, granulates, sachets, syrups or vials.
- [c15] 15. We claim the method of claim 13, in the form of lozenges, tablets, pills, capsules, powders, granulates, sachets, syrups or vials.
- [c16] 16. We claim the method of claim 14, in unit dosage form, comprising from about 100 mg to about 28 grams of at least one of the salts, preferably about between .5 gram and 5 grams.
- [c17] 17. We claim the method of claim 15, in unit dosage form, comprising from about 100 mg to about 28 grams of at least one of the salts, preferably about between .5 gram and 5 grams.
- [c18] 18. We claim the method of claim 16 for increasing the protein concentration in the body of a mammal, which comprises administering to a mammal a therapeutically effective amount of methyl pyruvate for a period of at least about 5 days to increase body protein concentration.

- [c19] 19. We claim the method of claim 17 for increasing the protein concentration in the body of a mammal, which comprises administering to a mammal a therapeutically effective amount of methyl pyruvate for a period of at least about 5 days to increase body protein concentration.
- [c20] 20. We claim the method of claim 5 wherein analogs can act as substrates or substrate analogs for methyl pyruvic acid.
- [c21] 21. We claim the method of claim 5 wherein methyl pyruvic acid and composition of a pharmacologically acceptable excipient and/or diluent therefor.
- [c22] 22. We claim the method of claim 21 wherein methyl pyruvic acid and composition which further comprises vitamins, coenzymes, mineral substances, amino acids, herbs, creatine compounds a, metabolic compounds,nd antioxidants.
- [c23] 23. We claim the method of claim 21, orally administrable, in the form of a dietary supplement or energizer or pharmaceutical drug.
- [c24] 24. We claim the method of claim 22, orally administrable, in the form of a dietary supplement or energizer or pharmaceutical drug.

- [c25] 25. We claim the method of claim 23, in the form of lozenges, tablets, pills, capsules, powders, granulates, sachets, syrups or vials.
- [c26] 26. We claim the method of claim 24, in the form of lozenges, tablets, pills, capsules, powders, granulates, sachets, syrups or vials.
- [c27] 27. We claim the method of claim 25, in unit dosage form, comprising from about 100 mg to about 28 grams, preferably about between .5 gram and 5 grams.
- [c28] 28. We claim the method of claim 26, in unit dosage form, comprising from about 100 mg to about 28 grams, preferably about between .5 gram and 5 grams.
- [c29] 29. We claim the method of claim 27 for increasing the protein concentration in the body of a mammal, which comprises administering to a mammal a therapeutically effective amount of methyl pyruvic acid for a period of at least about 5 days to increase body protein concentration.
- [c30] 30. We claim the method of claim 28 for increasing the protein concentration in the body of a mammal, which comprises administering to a mammal a therapeutically effective amount of methyl pyruvic acid for a period of at

least about 5 days to increase body protein concentration.